

METHOD AND APPARATUS FOR FILTERING UNWANTED
NOISE WHILE AMPLIFYING A DESIRED SIGNAL

ABSTRACT OF THE DISCLOSURE

A method and an apparatus for detecting signals in
5 an electromagnetically noisy environment by detecting
electromagnetic signals comprising a noise signal and a
known signal, and compressing the electromagnetic signal
to thereby generate a compressed signal. The compressed
signal is filtered to generate a filtered signal
10 comprising substantially the known signal, and the
filtered signal is expanded.